



National Load Despatch Centre  
राष्ट्रीय भार प्रेषण केंद्र  
GRID CONTROLLER OF INDIA LIMITED  
ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम)  
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016  
बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: GRID-INDIA/NLDC/SO/Daily PSP Report

दिनांक: 13.12.2024

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- कार्यकारी निदेशक, ऊ.क्षे.भा.प्रे.के., 18/ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016  
Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi - 110016
- कार्यकारी निदेशक, प.क्षे.भा.प्रे.के., एफ3, एम आई डी सी क्षेत्र, अंधेरी, मुंबई -400093  
Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- कार्यकारी निदेशक, द.क्षे.भा.प्रे.के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु -560009  
Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

**Sub: Daily PSP Report for the date 12.12.2024.**

महोदय/Dear Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 12-दिसंबर-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध है।

As per article 38(1) of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 12.12.2024, is available at the NLDC website.

धन्यवाद,  
Thanks

Report for previous day

Date of Reporting: 13-Dec-2024

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	56193	62485	42343	20701	2664	184386
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1210	1476	1059	423	49	4217
Hydro Gen (MU)	114	43	84	19	13	273
Wind Gen (MU)	12	154	57	-	-	223
Solar Gen (MU)*	151.77	98.50	58.49	3.17	1.04	313
Energy Shortage (MU)	0.97	0.00	0.00	0.00	0.00	0.97
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65562	74592	51478	20878	2857	211751
Time Of Maximum Demand Met	10:30	09:57	09:30	18:32	17:13	09:57

B. Frequency Profile (%)

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.030	0.00	0.06	2.38	2.44	77.19	20.37

C. Power Supply Position in States

Region	States	Max.Demand Met during the day (MW)	Shortage during maximum Demand (MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	9157	0	162.0	71.2	0.1	420	0.00
	Haryana	8701	0	159.5	104.0	-1.4	487	0.00
	Rajasthan	17992	0	332.6	121.1	-2.9	726	0.00
	Delhi	4197	0	74.8	75.3	-1.9	250	0.00
	UP	19119	0	326.0	117.6	0.2	521	0.00
	Uttarakhand	2462	0	44.9	33.7	-0.1	70	0.00
	HP	2139	0	39.5	31.8	-0.4	287	0.00
	J&K(UT) & Ladakh(UT)	3039	0	62.6	58.3	-0.7	384	0.97
	Chandigarh	244	0	4.1	4.4	-0.3	23	0.00
Railways_NR ISTS	189	0	4.0	3.8	0.2	21	0.00	
WR	Chhattisgarh	4720	0	95.0	36.3	0.7	225	0.00
	Gujarat	21368	0	405.0	158.5	-5.5	646	0.00
	MP	18229	0	333.8	209.2	-3.4	695	0.00
	Maharashtra	26958	0	565.3	207.5	-5.7	621	0.00
	Goa	711	0	15.0	12.1	2.4	82	0.00
	DNHDDPDCL	1342	0	30.4	30.4	0.0	116	0.00
	AMNSIL	822	0	18.9	9.3	0.3	244	0.00
	BALCO	528	0	12.6	12.7	-0.1	12	0.00
	RIL JAMNAGAR	30	0	0.2	0.0	0.2	0	0.00
SR	Andhra Pradesh	9569	0	197.5	68.7	1.0	536	0.00
	Telangana	12581	0	238.3	142.6	0.3	866	0.00
	Karnataka	13293	0	232.8	58.7	-0.6	799	0.00
	Kerala	4245	0	86.1	68.7	1.6	371	0.00
	Tamil Nadu	14419	0	295.7	177.1	-2.1	889	0.00
Puducherry	394	0	8.6	8.3	-0.2	34	0.00	
ER	Bihar	4836	0	86.6	75.4	-0.9	191	0.00
	DVC	3211	0	67.1	-41.4	-0.2	506	0.00
	Jharkhand	1982	0	38.7	30.2	-1.4	214	0.00
	Odisha	4592	0	89.2	17.8	-4.0	309	0.00
	West Bengal	7060	0	139.5	17.9	-2.1	151	0.00
	Sikkim	121	0	1.9	1.9	-0.1	27	0.00
Railways_ER ISTS	14	0	0.1	0.2	0.0	2	0.00	
NER	Arunachal Pradesh	169	0	2.5	2.7	-0.3	43	0.00
	Assam	1558	0	26.9	19.9	0.1	120	0.00
	Manipur	250	0	3.8	3.8	0.0	33	0.00
	Meghalaya	385	0	6.6	5.7	-0.1	30	0.00
	Mizoram	144	0	2.1	1.9	-0.2	18	0.00
	Nagaland	168	0	2.5	2.4	0.0	33	0.00
Tripura	229	0	4.4	4.1	0.4	35	0.00	

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-7.5	-2.8	-12.5	-13.8
Day Peak (MW)	-454.2	-247.0	-561.0	-761.2

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	247.9	-254.0	204.6	-204.9	6.4	0.0
Actual(MU)	244.2	-263.1	212.5	-207.8	5.7	-8.5
O/D/U/D(MU)	-3.8	-9.1	7.9	-2.8	-0.7	-8.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4529	11219	9708	3838	518	29812	50
State Sector	8588	12034	6849	1571	248	29289	50
Total	13117	23253	16557	5409	765	59101	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	688	1472	587	679	9	3435	75
Lignite	21	9	29	0	0	59	1
Hydro	114	43	84	19	13	273	6
Nuclear	32	68	64	0	0	163	4
Gas, Naptha & Diesel	2	11	5	0	24	43	1
RES (Wind, Solar, Biomass & Others)	189	257	142	6	1	595	13
Total	1046	1859	911	704	48	4568	100

Share of RES in total generation (%)	18.10	13.80	15.61	0.87	2.17	13.03
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.07	19.75	31.78	3.53	30.31	22.58

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.044

I. All India Peak Demand and shortage at Solar and Non-Solar Hour

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	211751	9:57	0
Non-Solar hr	195054	18:23	125

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

\*\*Note: All generation MU figures are gross

\*\*\*Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

Solar Hours -> 06:00 to 18:00hrs and rest are Non-Solar Hours

\*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

Executive Director-NLDC

**INTER-REGIONAL EXCHANGES**

Import=(+ve) /Export =(-ve) for NET (MU)  
Date of Reporting: 13-Dec-2024

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
<b>Import/Export of ER (With NR)</b>								
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	249	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	0	1032	0.0	15.5	-15.5
4	765 kV	SASARAM-FATEHPUR	1	0	490	0.0	7.2	-7.2
5	765 kV	GAYA-BALIA	1	0	705	0.0	12.2	-12.2
6	400 kV	PUSAULI-VARANASI	1	0	202	0.0	3.8	-3.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	122	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	581	0.0	8.3	-8.3
9	400 kV	PATNA-BALIA	2	0	1050	0.0	19.7	-19.7
10	400 kV	NAUBATPUR-BALIA	2	0	457	0.0	6.3	-6.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	270	0.0	5.1	-5.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	539	0.0	9.4	-9.4
13	400 kV	BIHARSHARIFF-VARANASI	2	61	362	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNUSA	1	0	61	0.0	0.6	-0.6
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>0.6</b>	<b>96.2</b>	<b>-95.6</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1	1303	0.0	15.5	-15.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	450	1388	0.0	12.4	-12.4
3	765 kV	JHARSUGUDA-DURG	2	0	851	0.0	16.0	-16.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	796	0.0	12.6	-12.6
5	400 kV	RANCHI-SIPAT	2	0	0	0.0	0.0	0.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	132	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	66	114	0.0	0.5	-0.5
<b>ER-WR</b>						<b>0.0</b>	<b>58.8</b>	<b>-58.8</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	259	0.0	6.2	-6.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1993	0.0	43.4	-43.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	3107	0.0	60.1	-60.1
4	400 kV	TALCHER-I/C	2	393	977	1.9	0.0	1.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>109.6</b>	<b>-109.6</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	260	3	2.8	0.0	2.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	463	0	6.1	0.0	6.1
3	220 kV	ALIPURDUAR-SALAKATI	2	84	0	1.2	0.0	1.2
<b>ER-NER</b>						<b>10.2</b>	<b>0.0</b>	<b>10.2</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	666	0	16.4	0.0	16.4
<b>NER-NR</b>						<b>16.4</b>	<b>0.0</b>	<b>16.4</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2531	0.0	57.0	-57.0
2	HVDC	VINDHYACHAL B/B	-	0	307	0.0	7.0	-7.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1457	0.0	29.2	-29.2
4	765 kV	GWALIOR-AGRA	2	0	1942	0.0	22.2	-22.2
5	765 kV	GWALIOR-PHAGI	2	743	1487	2.0	17.7	-15.6
6	765 kV	JABALPUR-ORAI	2	0	811	0.0	20.4	-20.4
7	765 kV	GWALIOR-ORAI	1	806	0	12.3	0.0	12.3
8	765 kV	SATNA-ORAI	1	0	1017	0.0	18.8	-18.8
9	765 kV	BANASKANTHA-CHITTOGARH	2	658	1115	2.3	9.3	-7.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2422	0.0	34.4	-34.4
11	400 kV	ZERDA-KANKROLI	1	167	152	0.8	0.9	-0.1
12	400 kV	ZERDA -BHINMAL	1	116	105	0.6	0.6	-0.1
13	400 kV	VINDHYACHAL -RIHAND	1	974	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUJALPUR	2	661	205	4.7	0.7	4.0
15	400 kV	NEEMUCH-Chittorgarh	2	726	195	5.8	0.5	5.3
16	220 kV	BHANPURA-RANPUR	1	0	205	0.0	2.9	-2.9
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
18	220 kV	MEHGAON-AURAIYA	1	108	4	1.3	0.0	1.3
19	220 kV	MALANPUR-AURAIYA	1	73	17	0.7	0.0	0.7
20	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
21	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>52.7</b>	<b>223.0</b>	<b>-170.3</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	4508	0.0	55.7	-55.7
3	765 kV	SOLAPUR-RAICHUR	2	467	1249	0.8	12.3	-11.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2379	0.0	38.7	-38.7
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2642	0.0	44.6	-44.6
6	400 kV	KOLHAPUR-KUDGI	2	1188	0	21.0	0.0	21.0
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	108	2.2	0.0	2.2
<b>WR-SR</b>						<b>24.0</b>	<b>175.2</b>	<b>-151.2</b>

INTERNATIONAL EXCHANGES					Import(+ve)/Export(-ve) Energy Exchange (MU)		
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)		
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 I.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	126	-94	-9	-0.21	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-171	155	-87	-2.09	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-234	-147	-199	-4.76	
	NER	132kV GELEPHU-SALAKATI	-24	-12	-18	-0.44	
	NER	132kV MOTANGA-RANGIA	8	-5	1	0.03	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-65	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-65	0	-30	-0.72	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-247	69	-85	-2.05	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-498	-446	-466	-11.19	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-761	-403	-575	-13.79	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-63	0	-53	-1.26	

**CROSS BORDER EXCHANGE SCHEDULE**

Date of Reporting: 13-Dec-2024

**Export From India (in MU)**

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.00	0.00	7.44	0.00	0.00	0.00	0.00	0.00	7.44
Nepal	0.35	0.00	1.14	0.00	0.00	1.02	0.00	0.00	2.51
Bangladesh	11.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.57
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Export</b>	<b>11.92</b>	<b>0.00</b>	<b>8.58</b>	<b>0.00</b>	<b>0.00</b>	<b>1.02</b>	<b>0.00</b>	<b>0.00</b>	<b>21.52</b>

**Import by India(in MU)**

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67
Nepal	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.12
Bangladesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Import</b>	<b>0.67</b>	<b>0.00</b>	<b>0.12</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.79</b>

**Net from India(in MU)**

-ve : Export / +ve : Import

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.67	0.00	-7.44	0.00	0.00	0.00	0.00	0.00	-6.77
Nepal	-0.35	0.00	-1.01	0.00	0.00	-1.02	0.00	0.00	-2.38
Bangladesh	-11.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-11.57
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Net</b>	<b>-11.25</b>	<b>0.00</b>	<b>-8.45</b>	<b>0.00</b>	<b>0.00</b>	<b>-1.02</b>	<b>0.00</b>	<b>0.00</b>	<b>-20.72</b>

15 Min (INSTANTANEOUS) ALL INDIA GRID FREQUENCY, GENERATION & DEMAND MET (SCADA DATA)												
TIME	FREQUENCY (Hz)	DEMAND MET (MW)	NUCLEAR (MW)	WIND (MW)	SOLAR (MW)	HYDRO** (MW)	GAS (MW)	THERMAL (MW)	OTHERS* (MW)	NET DEMAND MET (MW)	TOTAL GENERATION (MW)	NET TRANSNATIONAL EXCHANGE (MW)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I=A-(C+D))	(J=B+C+D+E+F+G+H)	(K)
0:00	50.05	147643	6653	10011	115	7367	1749	123293	2821	137517	152009	-937
0:15	49.95	146655	6660	10012	117	7427	1733	122213	2841	136526	151003	-938
0:30	50.00	145708	6654	9885	133	7692	1742	121194	2857	135690	150157	-937
0:45	49.99	145046	6664	9892	136	7425	1742	120698	2925	135018	149482	-973
1:00	50.04	143999	6658	9976	136	7282	1728	119777	2852	133887	148409	-939
1:15	49.99	143240	6648	10135	136	7028	1731	119089	2879	132969	147646	-995
1:30	49.99	142308	6656	10324	135	6956	1727	117780	2860	131849	146438	-956
1:45	49.94	141558	6658	10315	136	6663	1713	117423	2862	131107	145770	-1003
2:00	49.99	140472	6650	10382	136	6507	1722	116321	2853	129954	144571	-937
2:15	49.99	139825	6659	10541	135	6188	1747	115947	2848	129149	144065	-926
2:30	49.99	139674	6670	10473	135	6337	1643	115539	2881	129066	143678	-961
2:45	49.99	139611	6652	10547	135	6334	1642	115595	2850	128929	143755	-887
3:00	50.04	139073	6662	10537	135	6187	1638	115080	2869	128401	143108	-931
3:15	50.04	138948	6648	10603	135	6241	1651	114858	2880	128210	143016	-925
3:30	50.04	139365	6662	10642	135	6596	1758	114822	2878	128588	143493	-944
3:45	50.04	139317	6665	10566	135	6561	1653	114791	2903	128616	143274	-972
4:00	49.99	139171	6665	10624	135	6464	1651	114737	2874	128412	143150	-901
4:15	49.94	141342	6656	10639	135	6653	1751	116839	2869	130568	145542	-940
4:30	49.94	142849	6657	10609	135	6811	1755	118410	2918	132105	147295	-1015
4:45	49.94	144699	6654	10608	135	7001	1753	120395	2889	133956	149435	-1053
5:00	50.04	147328	6645	10651	135	7264	1750	122854	2874	136542	152173	-1033
5:15	49.94	151240	6642	10732	135	7711	1760	125890	2875	140373	155745	-897
5:30	49.94	154926	6652	10655	136	8278	1752	128703	2876	144135	159052	-611
5:45	49.89	159028	6657	10695	136	9321	1779	131537	2824	148197	162949	-511
6:00	50.09	162954	6661	10745	136	10696	1807	134366	2832	152073	167243	-615
6:15	50.04	168510	6643	10764	131	12839	1832	137684	2847	157615	172740	-679
6:30	50.09	175276	6651	10777	132	16364	1850	141257	2817	164367	179848	-680
6:45	50.04	181249	6653	10793	149	18923	1846	144231	2810	170307	185405	-706
7:00	50.04	185620	6665	10888	229	20396	1849	146861	2868	174503	189756	-717
7:15	49.94	190718	6654	10942	513	21789	1855	149382	2954	179263	194089	-602
7:30	50.04	194025	6656	11128	1163	22607	1840	150611	2982	181734	196987	-535
7:45	50.04	196560	6663	11110	2505	22841	1857	150718	2933	182945	198627	-533
8:00	50.09	197593	6668	10904	8719	21490	1851	150144	2975	177970	202751	-507
8:15	50.04	200054	6665	10600	12137	18166	1663	152470	3074	177317	204775	-517
8:30	50.04	201225	6655	10262	16348	15909	1855	152219	3038	174615	206286	-511
8:45	50.04	203850	6650	9783	20468	14934	1666	152159	3136	173599	208796	-491
9:00	50.09	205598	6617	8040	47357	14037	1665	120383	3076	150201	201175	-658
9:15	49.94	209306	6651	8491	28198	13361	1670	152949	3130	172617	214450	-665
9:30	49.99	210736	6633	7854	31304	12945	1671	152501	3134	171578	216042	-743
9:45	50.04	210732	6644	7413	33857	12492	1673	151249	3103	169462	216431	-953
10:00	50.04	211333	6646	7301	36198	11820	1890	150428	3173	167834	217456	-979
10:15	49.99	210893	6628	7111	38603	11070	1863	148173	3119	165179	216579	-1093
10:30	49.99	210780	6576	7024	40498	10250	1861	147305	3098	163258	216612	-1126
10:45	50.04	209348	6512	6970	42163	9338	1856	144643	3087	160215	214569	-1299
11:00	50.04	208838	6446	7052	41761	8503	1847	144225	3070	160025	212904	-1254
11:15	50.14	206555	6445	7148	43021	8122	1809	141381	3060	156386	210986	-1319
11:30	50.09	204691	6420	7339	43543	8136	1807	138414	3089	153809	208748	-1264
11:45	50.09	203169	6384	7512	43881	8412	1800	136083	3089	151776	207161	-1256
12:00	49.99	201539	6324	7665	44101	8459	1791	133950	3109	149773	205399	-1233
12:15	49.99	199525	6274	7835	44134	8160	1795	132219	3091	147556	203508	-1253
12:30	49.99	197816	6205	7882	43146	7885	1788	131998	3163	146788	202067	-1268
12:45	49.99	197042	6206	7822	43898	7827	1791	130292	3087	145322	200923	-1233
13:00	50.04	194947	6087	7684	44127	8111	1793	128119	3042	143136	198963	-1236
13:15	50.04	190809	6080	7554	36012	7319	1783	125468	3068	147243	187284	-1250
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14:00	49.99	187490	6157	7157	41299	6978	1808	125520	3099	139034	192018	-1284
14:15	49.94	187063	6188	7129	40189	6909	1805	126230	3080	139745	191530	-1259
14:30	49.99	188094	6146	6883	38995	7173	1804	128346	3043	142216	192390	-1317
14:45	49.99	189120	6163	6821	37146	7326	1806	131116	3067	145153	193445	-1309
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16:00	50.04	188401	6158	6626	23239	9901	1832	141556	3047	158536	192359	-1153
16:15	49.99	187181	6165	6760	19644	9710	1865	143553	3036	160777	190733	-1083
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16:45	49.89	189723	6147	6647	11584	14338	1868	149352	3010	171492	192946	-837
17:00	49.89	190241	6154	6599	7711	17039	1871	151013	3107	175931	193494	-776
17:15	49.94	190215	6179	6631	4881	19490	1862	152205	3137	178703	194385	-630
17:30	50.04	189980	6153	6619	2400	21379	1865	151663	3120	180961	193199	-621
17:45	50.04	191223	6137	6956	8785	24079	1862	152741	3103	175482	203663	-652
18:00	49.94	193131	6155	7156	5081	25510	1924	152113	3033	180894	200972	-595
18:15	49.79	194592	6161	7577	5002	25964	1941	152963	2998	182013	202606	-614
18:30	50.04	194944	6171	7937	4977	26146	1962	152171	3017	182030	202381	-595
18:45	49.99	193649	6144	8348	4984	26018	1969	150770	3007	180317	201240	-571
19:00	50.09	191309	6068	8798	4976	24600	1885	149465	3009	177535	198801	-590
19:15	50.09	188849	6023	9443	4976	22085	1819	148800	2987	174430	196133	-565
19:30	50.04	186560	5962	9779	4971	19496	1837	148836	3006	171810	193887	-559
19:45	50.09	183104	5914	10248	4955	17207	1827	147337	2989	167901	190477	-529
20:00	50.09	178639	5919	10661	4962	14599	1838	145739	3055	163016	186773	-553
20:15	49.99	175293	5958	11074	4666	13053	1778	142554	3063	159553	182146	-548
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20:45	50.04	170620	6007	11815	4627	11733	1772	139443	3067	154178	178464	-552
21:00	50.04	167713	6032	12293	4627	10490	1748	136669	3102	150793	174961	-619
21:15	49.99	164682	6039	12668	4627	9735	1720	134357	3134	147387	172280	-794
21:30	49.99	162759	6066	13013	4626	9412	1707	133393	3047	145120	171264	-842
21:45	50.04	160505	6103	13192	4628	9437	1710	130167	3105	142685	168342	-1098
22:00	50.14	157009	6107	13524	4631	8844	1706	127454	3081	138854	165347	-1190
22:15	49.99	155884	6134	13904	4632	8487	1710	125913	3083	137348	163863	-1123
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